| | Application No. | Applicant(s) |
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| Notice of Allowability | 10/046,463 | ANDERSON ET AL. |
| | Examiner | Art Unit |
| | Michael B. Holmes | 2121 |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. | | |
| 1. \boxtimes This communication is responsive to <u>December 23, 2004</u> . | | |
| 2. The allowed claim(s) is/are <u>1-33</u> . | | |
| 3. The drawings filed on 23 October 2001 are accepted by the Examiner. | | |
| 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | of this communication to file a reply ENT of this application. | complying with the requirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | |
| CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | on's Patent Drawing Review (PTO- s Amendment / Comment or in the C 84(c)) should be written on the drawing | Office action of |
| 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0: Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendr | ratent Application (PTO-152) (PTO-413), re nent/Comment ent of Reasons for Allowance |
| | | |

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UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

Examiner's Detailed Office Action

1. Applicant's arguments are persuasive. Claims 1-33 are allowed.

REASONS FOR ALLOWANCE

- 2. The following is an Examiner's statement for reasons for allowance:
- 3. The closest prior art *Hirosawa et al.* (USPN 5,995,729), *Sisk et al.* (USPN 6,366,644) and *Grimsrud* (USPN 5,726,913) do not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the prior art lacks certain features and the combination as specified in the respective claims.
- 4. With regards to claim 1 *Hirosawa et al.*, *Sisk et al.*, and *Grimsrud* do not disclose ... developing a design for the system and performing an automated loop comprising implementing the design, analyzing operation of the design after said implementing, and modifying the design based on results of said analyzing.
- 5. With regards to claim 13 *Hirosawa et al.*, *Sisk et al.*, and *Grimsrud* do not disclose ... developing a design for the data storage system and performing an automated loop comprising implementing the design, analyzing operation of the design after said implementing, and modifying the design based on results of said analyzing.

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6. With regards to claim 25 Hirosawa et al., Sisk et al., and Grimsrud do not disclose ...

developing a design for the data storage system, implementing the design, forming a trace of

storage system events, forming workload characterization from the trace, applying the workload

characterization to models of components of the data storage system, wherein said applying

indicates utilization of a component of the data storage system, and modifying the design in

response to the utilization indicated by said analyzing.

Correspondence Information

7. Any inquires concerning this communication or earlier communications from the

examiner should be directed to Michael B. Holmes, who may be reached Monday through

Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile

transmission (571) 273-3686 or email Michael.holmesb@uspto.gov.

If you need to send an Official facsimile transmission, please send it to (703) 746-7239.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony

Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service

Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor

of the south side of the Randolph Building.

Anthony Knight

Supervisory Patent Examiner

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Michael B. Holmes

Patent Examiner

Artificial Intelligence Art Unit 2121

United States Department of Commerce

Patent & Trademark Office

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Friday, March 11, 2005

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